

### UNITED STATES PATENT AND TRADEMARK OFFICE

BEST AVAILABLE COPY

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS PO. Box 1450 Alexandra, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/902,594 07/12/2001 Tsuyoshi Shibata 862.C2293 9420 5514 7590 08/27/2003 FITZPATRICK CELLA HARPER & SCINTO **EXAMINER** 30 ROCKEFELLER PLAZA LIANG, LEONARD S NEW YORK, NY 10112 ART UNIT PAPER NUMBER

> 2853 DATE MAILED: 08/27/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.	Applicant(s)		
09/902,594	SHIBATA, TSUYOSHI		
Examiner	Art Unit		
Leonard S Liang	2853		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**Period for Reply** 

#### A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.

<ul> <li>Failur</li> <li>Any re</li> </ul>	re to reply within the set or extended period for reply eply received by the Office later than three months at	will, by stat	tute, cause the appli	cation to			
Status	ed patent term adjustment. See 37 CFR 1.704(b).				(		
1) 🗌	Responsive to communication(s) file	ed on _	·				
2a)	This action is <b>FINAL</b> .	2b)⊠ <sup>-</sup>	This action is	non-fir	nal.		
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition	on of Claims						
4)⊠	Claim(s) <u>1-20</u> is/are pending in the a	applicati	ion.				
4	4a) Of the above claim(s) is/a	re withd	rawn from cor	ısidera	ition.		
5)⊠	☑ Claim(s) <u>1-14</u> is/are allowed.						
6)⊠	☑ Claim(s) <u>15-20</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restrict	tion and	d/or election re	quirer	nent.		
Application	ion Papers						
9) 🗌 1	The specification is objected to by the	Exami	ner.		•		
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any obj				•		
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority u	ınder 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>							
Attachment	t(s)						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P mation Disclosure Statement(s) (PTO-1449) Pa		)	5) 🔲	Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152) Other:		
S. Patent and Tra	mdomady Office						

Application/Control Number: 09/902,594

Art Unit: 2853

# BEST AVAILABLE COP

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 15-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Chan et al (US Pat 5111302).

#### Chan et al discloses:

- {claim 15} A printing apparatus for gray scale printing, comprising: means for acquiring gray scale values of surrounding pixels of a print pixel to be printed; means for comparing the gray scale values of the surrounding pixels and a gray scale value of the print pixel to be printed; means for determining a pattern positioning dots in the print pixel based on a result of the comparison means (column 2, lines 27-66; column 3, lines 33-64)
- {claim 16} the gray scale value of the print pixel is an average value of gray scale values of all pixels within the print pixel (figure 5B)
- {claim 17} the surrounding pixels are pixels at positions extending from four corners of the print pixel (figure 5B)
- {claim 18} the determining means further determines a driving position of a print element corresponding to a type of ink (column 2, lines 23-66)

Application/Control Number: 09/902,594

Art Unit: 2853

# BEST AVAILABLE COPY

• {claim 19} the determining means determines the driving position of the print element by looking up a table (column 2, lines 23-66)

• {claim 20} the determining means determines the pattern by looking up a table (column 2, lines 23-66)

## Allowable Subject Matter

Claims 1-14 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonard S Liang whose telephone number is (703) 305-4754. The examiner can normally be reached on 8:30-5 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (703) 308-4896. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Isl USL

Stephen D. Meier Primary Examiner